INDEX TO AUTHORS

ADDIS, T., and LEW, W. Protein consumption and the restoration of lost organ tissue, 563

— and —. The restoration of lost organ tissue. The rate and degree of restoration, 325

ALEXANDER, HATTIE E., and HEIDELBERGER, MICHAEL. Chemical studies on bacterial agglutination. V. Agglutinin and precipitin content of antisera to *Haemophilus influenzae*, type B, 1

ANGEVINE, D. MURRAY, and ROTHBARD, SIDNEY. The significance of the synovial villus and the ciliary process as factors in the localization of bacteria in the joints and eyes of rabbits, 129

AUB, JOSEPH C. See BRUES, SUBBAROW, JACKSON, and AUB, 423

BAIRD, R. D. See SMADEL, WALL, and BAIRD, 43

BALE, W. F. See HAHN, ROSS, BALE, and WHIPPLE, 731

BAUER, JOHANNES H., and PICKELS, EDWARD G. Apparatus for freezing and drying virus in large quantities under uniform conditions, 83

—. See PICKELS and BAUER, 703

BAYLESS, FRANCIS. See GOLDBLATT, KAHN, BAYLESS, and SIMON, 175

BOAK, RUTH A., CARPENTER, CHARLES M., and WARREN, STAFFORD L. The thermal inactivation time at 41.5°C. of three strains of herpes simplex virus, 169

—. See WARREN, CARPENTER, and BOAK, 155

BRUES, AUSTIN M., SUBBAROW, Y., JACKSON, ELIZABETH B., and AUB, JOSEPH C. Growth inhibition by substances in liver, 423

CARPENTER, CHARLES M. See BOAK, CARPENTER, and WARREN, 169

—. See WARREN, CARPENTER, and BOAK, 155

CASALS (CASALS-ARIET), J., and WEBSTER, LESLIE T. Characteristics of a strain of lymphocytic choriomeningitis virus encountered as a contaminant in tissue cultures of rabies virus, 147

—. See WEBSTER and CASALS, 719

CHAFFEE, ELEANOR. See MEYER, HOBBY, CHAFFEE, and DAWSON, 137

CHASE, M. W. See LANDSTEINER and CHASE, 237

CLAUDE, ALBERT, and ROTHEN, ALEXANDRE. Properties of the causative agent of a chicken tumor. XIV. Relation between a tumor nucleoprotein and the active principle, 619

COGGESHALL, L. T. The selective action of sulfanilamide on the parasites of experimental malaria in monkeys *in vivo* and *in vitro*, 13

COWEN, DAVID. See WOLF, COWEN, and PAIGE, 187

DAWSON, MARTIN H. See MEYER, HOBBY, CHAFFEE, and DAWSON, 137

DRURY, D. R. See TAGGART and DRURY, 857

DUBOS, RENÉ J. See SMADEL, LAVIN, and DUBOS, 373

EAGLE, HARRY, and HOGAN, RALPH B. On the presence in syphilitic serum of antibodies to spirochetes, their relation to so called Wassermann reagin, and their significance for the serodiagnosis of syphilis, 215

ECKER, E. E., and PILLEMER, L. The specificity of oxidized and reduced proteins of the ocular lens, 585

FINCH, C. A. See MADDEN, FINCH, SWALBACH, and WHIPPLE, 283
FRANCIS, THOMAS, JR. See STOCK and FRANCIS, 661
FURTH, JACOB. See KABAT and FURTH, 55

GARD, SVEN. III. A method for detecting poliomyelitic virus in sewage and stools, 779
—. See PAUL, TRASK, and GARD, 765
GERBI, C., RUBENSTEIN, B. B., and GOLDBLATT, HARRY. Studies on experimental hypertension. X. The oxygen consumption of the ischemic kidney, 71
GOLDBLATT, HARRY, KAHN, JOSEPH R., BAYLESS, FRANCIS, and SIMON, MORRIS A. Studies on experimental hypertension. XI. The effect of excision of the carotid sinuses on experimental hypertension produced by renal ischemia, 175
—. See GERBI, RUBENSTEIN, and GOLDBLATT, 71
GOLDSTEIN, FREDERICK. See MANWELL and GOLDSTEIN, 409
GREENE, HARRY S. N. A dwarf mutation in the rabbit. The constitutional influence on homozygous and heterozygous individuals, 839
—. Familial mammary tumors in the rabbit. IV. The evolution of autonomy in the course of tumor development as indicated by transplantation experiments, 305

HAHN, P. F., ROSS, J. F., BALE, W. F., and WHIPPLE, G. H. The utilization of iron and the rapidity of hemoglobin formation in anemia due to blood loss, 731
HAHN, RICHARD G. See HORSFALL and HAHN, 391
HARTE, R. A. See LANDSTEINER and HARTE, 551
HEIDELBERGER, MICHAEL, TREFFERS, HENRY P., and MAYER, MANFRED. A quantitative theory of the precipitin reaction. VII. The egg albumin-antibody reaction in antisera from the rabbit and horse, 271
—. See ALEXANDER and HEIDELBERGER, 1
HELMER, O. M. See PAGE and HELMER, 29, 495
HOAGLAND, CHARLES L., SMADEL, JOSEPH E., and RIVERS, THOMAS M. Constituents of elementary bodies of vaccinia. I. Certain basic analyses and observations on lipid components of the virus, 737
HOBBY, GLADYS L. See MEYER, HOBBY, CHAFFEE, and DAWSON, 137
HOGAN, RALPH B. See EAGLE and HOGAN, 215
HOLMAN, RUSSELL L., and MEBANE, J. GILMER. The influence of nitrogen retention upon the regeneration of plasma proteins, 299
HORSFALL, FRANK L., JR., and HAHN, RICHARD G. A latent virus in normal mice capable of producing pneumonia in its natural host, 391

JACKSON, ELIZABETH B. See BRUES, SUBBAROW, JACKSON, and AUB, 423

KABAT, ELVIN A., and FURTH, JACOB. Chemical and immunological studies on the agent producing leucosis and sarcoma of fowls, 55
KAHN, JOSEPH R. See GOLDBLATT, KAHN, BAYLESS, and SIMON, 175
KESSEL, JOHN F. See STIMPERT and KESSEL, 645
KIDD, JOHN G. A distinctive substance associated with the Brown-Pearce rabbit carcinoma. I. Presence and specificity of the substance as determined by serum reactions, 335
—. II. Properties of the substance: discussion, 351
— and ROUS, PEYTON. Cancers deriving from the virus papillomas of wild rabbits under natural conditions, 469

KIDD, JOHN G., and ROUS, PEYTON. A transplantable rabbit carcinoma originating in a virus-induced papilloma and containing the virus in masked or altered form, 813
—. See ROUS and KIDD, 787
KING, LESTER S. Some properties of the encephalopathic agent in primate bone marrow (the Gordon agent), 603
—. Studies on Eastern equine encephalomyelitis. IV. Infection in the mouse with fresh and fixed virus, 95
—. V. Histopathology in the mouse, 107

LANCEFIELD, REBECCA C. The significance of M and T antigens in the cross-reactions between certain types of group A hemolytic streptococci, 539
—. Type specific antigens, M and T, of matt and glossy variants of group A hemolytic streptococci, 521
LANDSTEINER, KARL, and CHASE, M. W. Studies on the sensitization of animals with simple chemical compounds. VII. Skin sensitization by intraperitoneal injections, 237
— and HARTE, R. A. On group specific A substances. IV. The substance from hog stomach, 551
— and PARKER, RAYMOND C. Serological tests for homologous serum proteins in tissue cultures maintained on a foreign medium, 231
— and VAN DER SCHEER, J. On cross-reactions of egg albumin sera, 445
LAVIN, GEORGE I. See SMADEL, LAVIN, and DUBOS, 373
LENKE, SIDNEY EDWARD. See LOEWE and LENKE, 89
LEW, W. See ADDIS and LEW, 325, 563
LOEWE, LEO, and LENKE, SIDNEY EDWARD. Cardiac lesions resembling Aschoff bodies in rabbits, 89
LONGSWORTH, L. G., and MACINNES, D. A. An electrophoretic study of nephrotic sera and urine, 77
LUNDGREN, H. P. See PAPPENHEIMER, LUNDGREN, and WILLIAMS, 247

MACINNES, D. A. See LONGSWORTH and MACINNES, 77
MADDEN, S. C., FINCH, C. A., SWALBACH, W. G., and WHIPPLE, G. H. Blood plasma protein production and utilization. The influence of amino acids and of sterile abscesses, 283
MANWELL, REGINALD D., and GOLDSTEIN, FREDERICK. Passive immunity in avian malaria, 409
MAYER, MANFRED. See HEIDELBERGER, TREFFERS, and MAYER, 271
MEBANE, J. GILMER. See HOLMAN and MEBANE, 299
MEYER, KARL, HOBBY, GLADYS L., CHAFFEE, ELEANOR, and DAWSON, MARTIN H. The hydrolysis of hyaluronic acid by bacterial enzymes, 137

NELSON, JOHN B. The behavior of pox viruses in the respiratory tract. III. The survival of variola and vaccinia viruses in the lungs of mice previously infected with variola, 653

PAGE, IRVINE H., and HELMER, O. M. Angiotonin-activator, renin- and angiotonin-inhibitor, and the mechanism of angiotonin tachyphylaxis in normal, hypertensive, and nephrectomized animals, 495
— and —. A crystalline pressor substance (angiotonin) resulting from the reaction between renin and renin-activator, 29
PAIGE, BERYL H. See WOLF, COWEN, and PAIGE, 187
PAPPENHEIMER, ALWIN M., JR. Anti-egg albumin antibody in the horse, 263
—, LUNDGREN, H. P., and WILLIAMS, J. W. Studies on the molecular weight of diphtheria toxin, antitoxin, and their reaction products, 247
PARKER, RAYMOND C. See LANDSTEINER and PARKER, 231

PARKER, ROBERT F. Studies of the infectious unit of myxoma, 439
PAUL, JOHN R., TRASK, JAMES D., and GARD, SVEN. II. Poliomyelitic virus in urban sewage, 765
—. See TRASK, PAUL, and VIGNEC, 751
PICKELS, EDWARD G., and BAUER, JOHANNES H. Ultracentrifugation studies of yellow fever virus, 703
—. See BAUER and PICKELS, 83
PILLEMER, L. See ECKER and PILLEMER, 585

RIVERS, THOMAS M. See HOAGLAND, SMADEL, and RIVERS, 737
ROBSCHEIT-ROBBINS, F. S. See WHIPPLE and ROBSCHEIT-ROBBINS, 569
ROSS, J. F. See HAHN, ROSS, BALE, and WHIPPLE, 731
ROTHBARD, SIDNEY. See ANGEVINE and ROTHBARD, 129
ROTHEN, ALEXANDRE. See CLAUDE and ROTHEN, 619
ROUS, PEYTON, and KIDD, JOHN G. The activating, transforming, and carcinogenic effects of the rabbit papilloma virus (Shope) upon implanted tar tumors, 787
—. See KIDD and ROUS, 469, 813
RUBENSTEIN, B. B. See GERBI, RUBENSTEIN, and GOLDBLATT, 71

SAMMIS, F. EASTTY. An heterophile factor in ragweed pollen, 591
SANDERS, MURRAY. Studies on the cultivation of the virus of lymphogranuloma venereum, 113
SILVERMAN, I. JEROME. See WIENER and SILVERMAN, 21
SIMON, MORRIS A. See GOLDBLATT, KAHN, BAYLESS, and SIMON, 175
SMADEL, JOSEPH E., LAVIN, GEORGE I., and DUBOS, RENÉ J. Some constituents of elementary bodies of vaccinia, 373
—, WALL, M. J., and BAIRD, R. D. A soluble antigen of lymphocytic choriomeningitis. II. Characteristics of the antigen and its use in precipitin reactions, 43
SMADEL, JOSEPH E. See HOAGLAND, SMADEL, and RIVERS, 737
STIMPERT, FRED D., and KESSEL, JOHN F. Infectivity and immunity resulting from the injection of poliomyelitis virus by the intracutaneous route, 645
STOCK, C. CHESTER, and FRANCIS, THOMAS, JR. The inactivation of the virus of epidemic influenza by soaps, 661
SUBBAROW, Y. See BRUES, SUBBAROW, JACKSON, and AUB, 423
SWALBACH, W. G. See MADDEN, FINCH, SWALBACH, and WHIPPLE, 283
SWANK, ROY LAVER. Avian thiamin deficiency. A correlation of the pathology and clinical behavior, 683

TAGGART, JOHN, and DRURY, D. R. The action of renin on rabbits with renal hypertension, 857
TRASK, JAMES D., PAUL, JOHN R., and VIGNEC, ALFRED J. I. Poliomyelitic virus in human stools, 751
—. See PAUL, TRASK, and GARD, 765
TREFFERS, HENRY P. See HEIDELBERGER, TREFFERS, and MAYER, 271

VAN DER SCHEER, J. See LANDSTEINER and VAN DER SCHEER, 445
VERWEY, W. F. A type specific antigenic protein derived from the staphylococcus, 635
VIGNEC, ALFRED J. See TRASK, PAUL, and VIGNEC, 751

WALL, M. J. See SMADEL, WALL, and BAIRD, 43
WARREN, STAFFORD L., CARPENTER, CHARLES M., and BOAK, RUTH A. Symptomatic herpes, a sequela of artificially induced fever. Incidence and clinical aspects; recovery of a virus from herpetic vesicles, and comparison with a known strain of herpes virus, 155

WARREN, STAFFORD L. See BOAK, CARPENTER, and WARREN, 169
WEBSTER, LESLIE T., and CASALS, J. A dog test for measuring the immunizing potency of antirabies vaccines, 719
—. See CASALS and WEBSTER, 147
WESTWATER, JOHN O. Antibody formation in a tuberculous lesion at the site of inoculation, 455
WHIPPLE, G. H., and ROBSCHEIT-ROBBINS, F. S. Amino acids and hemoglobin production in anemia, 569
WHIPPLE, G. H. See HAHN, ROSS, BALE, and WHIPPLE, 731
—. See MADDEN, FINCH, SWALBACH, and WHIPPLE, 283
WIENER, ALEXANDER S., and SILVERMAN, I. JEROME. Permeability of the human placenta to antibodies. A quantitative study, 21
WILLIAMS, J. W. See PAPPENHEIMER, LUNDGREN, and WILLIAMS, 247
WOLF, ABNER, COWEN, DAVID, and PAIGE, BERYL H. Toxoplasmic encephalomyelitis. IV. Experimental transmission of the infection to animals from a human infant, 187

INDEX TO SUBJECTS

ABSCESSES, sterile, and amino acids, influencing plasma protein production and utilization, 283
Acid, hyaluronic, hydrolysis by bacterial enzymes, 137
Acids, amino, and hemoglobin production in anemia, 569
—, amino, and sterile abscesses influencing plasma protein production and utilization, 283
Agglutination, bacterial, chemical studies, 1
Agglutinin and precipitin content of antisera to *Haemophilus influenzae* type B, 1
Albumin, egg, anti-, antibody in horse, 263
—, egg, reaction with antibody in antisera from rabbit and horse, 271
—, egg, sera, cross-reactions, 445
Amino acids and hemoglobin production in anemia, 569
— acids and sterile abscesses influencing plasma protein production and utilization, 283
Anemia, amino acids and hemoglobin production, 569
— due to blood loss, iron utilization and rapidity of hemoglobin formation, 731
Angiotonin, crystalline pressor substance resulting from reaction between renin and renin-activator, 29
Angiotonin-activator, renin- and angiotonin-inhibitor, and mechanism of angiotonin tachyphylaxis in normal, hypertensive, and nephrectomized animals, 495
Antibodies, permeability of human placenta to, 21
— to spirochetes in syphilitic serum, relation to Wassermann reagin and significance for serodiagnosis of syphilis, 215
Antibody, anti-egg albumin, in horse, 263
— formation in tuberculous lesion at inoculation site, 455
Antibody-egg albumin reaction in antisera from rabbit and horse, 271
Antigen, soluble, of lymphocytic choriomeningitis, characteristics and use in precipitin reactions, 43
Antigenic protein, type specific, from staphylococcus, 635
Antigens, M and T, significance in cross-reactions between group A hemolytic streptococci, 539
—, M and T, type specific, of matt and glossy variants of group A hemolytic streptococci, 521
Antirabies vaccines, immunizing potency, dog test for measuring, 719
Antisera, rabbit and horse, egg albumin-antibody reaction, 271
— to *Haemophilus influenzae* type B, agglutinin and precipitin content, 1
Antitoxin and toxin, diphtheria, and their reaction products, molecular weight, 247
Apparatus for freezing and drying virus in large quantities under uniform conditions, 83
Aschoff bodies, resemblance of cardiac lesions in rabbits, 89
Avian malaria, passive immunity, 409
— thiamin deficiency, pathology and clinical behavior, 683

BACTERIA, localization in joints and eyes, significance of synovial villus and ciliary process, 129
Bacterial agglutination, chemical studies, 1
— enzymes, hydrolysis of hyaluronic acid, 137

Blood loss anemia, iron utilization and rapidity of hemoglobin formation, 731
— plasma. *See* Plasma.
Bodies, elementary, of vaccinia, constituents, 373
—, elementary, of vaccinia, lipid components of virus, 737
Bone marrow, primate, encephalopathic agent (Gordon agent), 603
Brown-Pearce rabbit carcinoma, distinctive substance, presence and specificity determined by serum reactions, 335
— rabbit carcinoma, distinctive substance, properties, 351

CANCER, rabbit, Brown-Pearce, distinctive substance, presence and specificity determined by serum reactions, 335
—, rabbit, Brown-Pearce, distinctive substance, properties, 351
—, rabbit, transplantable, originating in virus-induced papilloma and containing virus in masked or altered form, 813
Cancers from virus papillomas of wild rabbits under natural conditions, 469
Carcinogenic, activating, and transforming effects of Shope rabbit papilloma virus upon implanted tar tumors, 787
Carotid sinuses, excision, effect on hypertension produced by renal ischemia, 175
Centrifugation, ultra-, yellow fever virus, 703
Chemical compounds, simple, sensitization of animals, 237
— and immunological studies on agent producing fowl leucosis and sarcoma, 55
— studies on bacterial agglutination, 1
Choriomeningitis, lymphocytic, soluble antigen, characteristics and use in precipitin reactions, 43
—, lymphocytic, virus, contaminant in rabies virus tissue cultures, 147
Ciliary process and synovial villus, factors in localization of bacteria in joints and eyes, 129
Cultivation, lymphogranuloma venereum virus, 113
—, tissue, on foreign medium, serological tests for homologous serum proteins in, 231
—, tissue, rabies virus, lymphocytic choriomeningitis virus contaminant in, 147

DEFICIENCY, thiamin, avian, pathology and clinical behavior, 683
Diphtheria toxin, antitoxin, and their reaction products, molecular weight, 247
Dwarf mutation, rabbit, constitutional influence on homozygous and heterozygous individuals, 839

EGG albumin, anti-, antibody in horse, 263
— albumin sera, cross-reactions, 445
— albumin-antibody reaction in antisera from rabbit and horse, 271
Electrophoretic study of nephrotic sera and urine, 77
Encephalomyelitis, equine, Eastern, histopathology in mouse, 107
—, equine, Eastern, infection in mouse with fresh and fixed virus, 95
—, toxoplasmic, human infant, transmission to animals, 187
Encephalopathic agent in primate bone marrow, 603
Enzymes, bacterial, hydrolysis of hyaluronic acid, 137
Epidemic influenza virus, inactivation by soaps, 661
Eye lens, oxidized and reduced proteins, specificity, 585
Eyes and joints, localization of bacteria, significance of synovial villus and ciliary process, 129

FAMILY mammary tumors in rabbit, evolution of autonomy in tumor development as indicated by transplantation, 305

Feces, human, poliomyelitis virus, 751
— and sewage, method for detecting poliomyelitis virus, 779
Fever, artificially induced, symptomatic herpes a sequela, 155
—, yellow. *See* Yellow fever.
Fowl leucosis and sarcoma, agent producing, chemistry and immunology, 55

GORDON encephalopathic agent in primate bone marrow, 603

HAEMOPHILUS *influenzae* type B, agglutinin and precipitin content of antisera, 1
Heart lesions resembling Aschoff bodies in rabbits, 89
Heat inactivation time at 41.5°C. of herpes simplex virus, 169
Hemoglobin formation, rapidity, and iron utilization, in anemia due to blood loss, 731
— production and amino acids in anemia, 569
Hemolytic streptococci, group A, matt and glossy variants, type specific antigens M and T, 521
— streptococci, group A, significance of M and T antigens in cross-reactions between, 539
Hemophilus influenzae. See Haemophilus influenzae.
Herpes simplex virus, thermal inactivation time at 41.5°C., 169
—, symptomatic, sequela of artificially induced fever, virus recovered from herpetic vesicles and known herpes virus strain, comparison, 155
Heterophile factor in ragweed pollen, 591
Heterozygous and homozygous rabbits, constitutional influence in dwarf mutation, 839
Histopathology of Eastern equine encephalomyelitis in mouse, 107
Homologous serum proteins in tissue cultures maintained on foreign medium, serological tests for, 231
Homozygous and heterozygous rabbits, constitutional influence in dwarf mutation, 839
Horse, anti-egg albumin antibody, 263
— encephalomyelitis, Eastern, histopathology in mouse, 107
— encephalomyelitis, Eastern, infection in mouse with fresh and fixed virus, 95
— and rabbit antisera, egg albumin-antibody reaction, 271
Hyaluronic acid hydrolysis by bacterial enzymes, 137
Hydrolysis, hyaluronic acid, by bacterial enzymes, 137
Hypertension, oxygen consumption of ischemic kidney, 71
— produced by renal ischemia, carotid sinuses excised, effect, 175
—, renal, renin action, 857
Hypertensive, nephrectomized, and normal animals, mechanism of angiotonin tachyphylaxis, 495

IMMUNITY and infectivity after poliomyelitis virus injection by intracutaneous route, 645
—, passive, avian malaria, 409
Immunizing potency of antirabies vaccines, dog test for measuring, 719
Immunological and chemical studies on agent producing fowl leucosis and sarcoma, 55
Infant, human, toxoplasmic encephalomyelitis, transmission to animals, 187
Influenza virus, epidemic, inactivation by soaps, 661
Injection, intraperitoneal, simple chemical compounds, skin sensitization by, 237
—, poliomyelitis virus, by intracutaneous route, infectivity and immunity resulting, 645
Inoculation site, tuberculous lesion, antibody formation, 455
Iron utilization and rapidity of hemoglobin formation in anemia due to blood loss, 731

Ischemia, renal, producing hypertension, carotid sinuses excised, effect, 175
Ischemic kidney, oxygen consumption, 71

JOINTS and eyes, localization of bacteria, significance of synovial villus and ciliary process, 129

KIDNEY hypertension, renin action, 857
— ischemia producing hypertension, carotid sinuses excised, effect, 175
—, ischemic, oxygen consumption, 71

LENS, ocular, oxidized and reduced proteins, specificity, 585
Lesion, tuberculous, antibody formation at inoculation site, 455
Lesions, cardiac, resembling Aschoff bodies, in rabbits, 89
Leucosis and sarcoma, fowl, agent producing, chemistry and immunology, 55
Lipid components of vaccinia virus, 737
Liver substances inhibiting growth, 423
Lungs, survival of variola and vaccinia viruses after previous variola infection, 653
Lymphocytic choriomeningitis, soluble antigen, characteristics and use in precipitin reactions, 43
— choriomeningitis virus, contaminant in rabies virus tissue cultures, 147
Lymphogranuloma venereum virus, cultivation, 113

MALARIA, avian, passive immunity, 409
— parasites in monkeys, selective action of sulfanilamide *in vivo* and *in vitro*, 13
Mammary tumors, familial, in rabbit, evolution of autonomy in tumor development as indicated by transplantation, 305
Man, infant, toxoplasmic encephalomyelitis, transmission to animals, 187
—, placenta, permeability to antibodies, 21
—, poliomyelitis virus in stools, 751
Marrow. *See* Bone marrow.
Medium, foreign, tissue cultures maintained on, serological tests for homologous serum proteins in, 231
Meningitis, chorio-, lymphocytic, soluble antigen, characteristics and use in precipitin reactions, 43
—, chorio-, lymphocytic, virus, contaminant in rabies virus tissue cultures, 147
Molecular weight of diphtheria toxin, antitoxin, and their reaction products, 247
Mutation, dwarf, rabbit, constitutional influence on homozygous and heterozygous individuals, 839
Myxoma, infectious unit, 439

NEPHRECTOMIZED, hypertensive, and normal animals, mechanism of angiotonin tachyphylaxis, 495
Nephrotic sera and urine, electrophoretic study, 77
Nitrogen retention influencing plasma protein regeneration, 299
Nucleoprotein, chicken tumor, and active principle, relation, 619

ORGAN tissue, lost, rate and degree of restoration, 325
— tissue, lost, restoration, and protein consumption, 563
Oxidized and reduced proteins of ocular lens, specificity, 585
Oxygen consumption of ischemic kidney, 71

PAPILLOMA, rabbit, Shope, activating, transforming, and carcinogenic effects of virus upon implanted tar tumors, 787
—, rabbit, virus-induced, origin of transplantable carcinoma containing virus in masked or altered form, 813

Papillomas, virus, wild rabbits under natural conditions, cancers from, 469
Parasites, malaria, in monkeys, selective action of sulfanilamide *in vivo* and *in vitro*, 13
Pathology, avian thiamin deficiency, and clinical behavior, 683
Placenta, human, permeability to antibodies, 21
Plasma protein production and utilization, amino acids and sterile abscesses influencing, 283
— protein regeneration, nitrogen retention influencing, 299
Pneumonia, virus latent in normal mice producing infection in natural host, 391
Poliomyelitis virus in human stools, 751
— virus in sewage and stools, method for detecting, 779
— virus in urban sewage, 765
— virus injection by intracutaneous route, infectivity and immunity resulting, 645
Pollen, ragweed, heterophile factor, 591
Pox viruses, behavior in respiratory tract, survival of variola and vaccinia viruses in lungs after previous variola infection, 653
Precipitin and agglutinin content of antisera to *Haemophilus influenzae* type B, 1
— reaction, egg albumin-antibody reaction in antisera from rabbit and horse, 271
— reactions, use of soluble antigen of lymphocytic choriomeningitis, 43
Pressor substance, crystalline, (angiotonin), resulting from reaction between renin and renin-activator, 29
Primate bone marrow, encephalopathic agent (Gordon agent), 603
Protein, antigenic, type specific, from staphylococcus, 635
— consumption and lost organ tissue restoration, 563
Protein, plasma, production and utilization, amino acids and sterile abscesses influencing, 283
Proteins of ocular lens, oxidized and reduced, specificity, 585
—, plasma, regeneration, nitrogen retention influencing, 299
—, serum, homologous, in tissue cultures maintained on foreign medium, serological tests for, 231

RABIES, anti-, vaccines, immunizing potency, dog test for measuring, 719
— virus tissue cultures, lymphocytic choriomeningitis virus contaminant in, 147
Ragweed pollen, heterophile factor, 591
Reaction, precipitin, egg albumin-antibody reaction in antisera from rabbit and horse, 271
Reactions, cross-, between group A hemolytic streptococci, significance of M and T antigens, 539
—, cross-, of egg albumin sera, 445
—, precipitin, use of soluble antigen of lymphocytic choriomeningitis, 43
—, serum, determining presence and specificity of distinctive substance associated with Brown-Pearce rabbit carcinoma, 335
Reagin, Wassermann, relation of antibodies to spirochetes in syphilitic serum, 215
Reduced and oxidized proteins of ocular lens, specificity, 585
Regeneration, plasma proteins, nitrogen retention influencing, 299
Renal. *See* Kidney.
Renin action in renal hypertension, 857
—and renin-activator, reaction between, crystalline pressor substance, angiotonin, resulting from, 29
Renin-inhibitor, angiotonin-inhibitor, and angiotonin-activator, and mechanism of angiotonin tachyphylaxis in normal, hypertensive, and nephrectomized animals, 495

Respiratory tract, behavior of pox viruses, survival of variola and vaccinia viruses in lungs after previous variola infection, 653

SARCOMA and leucosis, fowl, agent producing, chemistry and immunology, 55
Sensitization of animals with simple chemical compounds, 237
Sera, egg albumin, cross-reactions, 445
— and urine, nephrotic, electrophoretic study, 77
Serodiagnosis, syphilis, antibodies to spirochetes in syphilitic serum, relation to Wassermann reagin, 215
Serological tests for homologous serum proteins in tissue cultures maintained on foreign medium, 231
Serum proteins, homologous, in tissue cultures maintained on foreign medium, serological tests for, 231
— reactions determining presence and specificity of distinctive substance associated with Brown-Pearce rabbit carcinoma, 335
—, syphilitic, antibodies to spirochetes, 215
Sewage and stools, method for detecting poliomyelitis virus, 779
—, urban, poliomyelitis virus, 765
Shope rabbit papilloma virus, activating, transforming, and carcinogenic effects upon implanted tar tumors, 787
Sinuses, carotid, excision, effect on hypertension produced by renal ischemia, 175
Skin, poliomyelitis virus injection, infectivity and immunity resulting, 645
— sensitization by intraperitoneal injections with simple chemical compounds, 237
Soaps inactivating epidemic influenza virus, 661
Specific substance, group A, from hog stomach, 551
Specificity, oxidized and reduced proteins of ocular lens, 585
— and presence of distinctive substance associated with Brown-Pearce rabbit carcinoma, determined by serum reactions, 335
Specificity, type, antigenic protein from staphylococcus, 635
—, type, antigens M and T, of matt and glossy variants of group A hemolytic streptococci, 521
Spirochetes in syphilitic serum, presence of antibodies and their relation to Wassermann reagin and significance for serodiagnosis of syphilis, 215
Staphylococcus, type specific antigenic protein derived from, 635
Sterile abscesses and amino acids influencing plasma protein production and utilization, 283
Stomach, hog, group specific A substance from, 551
Streptococci, hemolytic, group A, matt and glossy variants, type specific antigens M and T, 521
—, hemolytic, group A, significance of M and T antigens in cross-reactions between, 539
Sulfanilamide, selective action on malaria parasites in monkeys *in vivo* and *in vitro*, 13
Synovial villus and ciliary process, factors in localization of bacteria in joints and eyes, 129
Syphilis, serodiagnosis, antibodies to spirochetes in syphilitic serum, relation to Wassermann reagin, 215

TACHYPHYLAXIS, angiotonin, mechanism in normal, hypertensive, and nephrectomized animals, 495
Tar tumors, implanted, activating, transforming, and carcinogenic effects of Shope rabbit papilloma virus, 787
Thiamin deficiency, avian, pathology and clinical behavior, 683
Tissue cultures maintained on foreign medium, serological tests for homologous serum proteins in, 231
— cultures, rabies virus, lymphocytic choriomeningitis virus contaminant in, 147
—, organ, lost, rate and degree of restoration, 325
—, organ, lost, restoration, and protein consumption, 563

Toxin and antitoxin, diphtheria, and their reaction products, molecular weight, 247
Toxoplasmic encephalomyelitis, human infant, transmission to animals, 187
Transmission, toxoplasmic encephalomyelitis, to animals from human infant, 187
Transplantable rabbit carcinoma originating in virus-induced papilloma and containing virus in masked or altered form, 813
Transplantation, familial mammary tumors in rabbit, evolution of autonomy in development, 305
Tuberculous lesion, antibody formation at inoculation site, 455
Tumor, chicken, nucleoprotein and active principle, relation, 619
Tumors, mammary, familial, in rabbit, evolution of autonomy in tumor development as indicated by transplantation, 305
—, tar, implanted, activating, transforming, and carcinogenic effects of Shope rabbit papilloma virus, 787

ULTRACENTRIFUGATION, yellow fever virus, 703
Urine and sera, nephrotic, electrophoretic study, 77

VACCINES, antirabies, immunizing potency, dog test for measuring, 719
Vaccinia, elementary bodies, constituents, 373
—, elementary bodies, lipid components of virus, 737
— and variola viruses, survival in lungs after previous variola infection, 653
Variola and vaccinia viruses, survival in lungs after previous variola infection, 653
Villus, synovial, and ciliary process, factors in localization of bacteria in joints and eyes, 129
Virus, Eastern equine encephalomyelitis, fresh and fixed, infection in mouse, 95
Virus, herpes, known strain, and virus recovered from herpetic vesicles following artificially induced fever, comparison, 155
—, herpes simplex, thermal inactivation time at 41.5°C., 169
—, influenza, epidemic, inactivation by soaps, 661
—, large quantities, apparatus for freezing and drying under uniform conditions, 83
—, latent, in normal mice, producing pneumonia in natural host, 391
—, lymphocytic choriomeningitis, contaminant in rabies virus tissue cultures, 147
—, lymphogranuloma venereum, cultivation, 113
— papillomas, wild rabbits under natural conditions, cancers from, 469
—, poliomyelitis, in human stools, 751
—, poliomyelitis, in sewage and stools, method for detecting, 779
—, poliomyelitis, in urban sewage, 765
—, poliomyelitis, injection by intracutaneous route, infectivity and immunity resulting, 645
—, rabies, tissue cultures, lymphocytic choriomeningitis virus contaminant in, 147
—, Shope rabbit papilloma, activating, transforming, and carcinogenic effects upon implanted tar tumors, 787
—, vaccinia, lipid components, 737
—, yellow fever, ultracentrifugation, 737
Viruses, pox, behavior in respiratory tract, survival of variola and vaccinia viruses in lungs after previous variola infection, 653
Virus-induced papilloma, rabbit, origin of transplantable carcinoma containing virus in masked or altered form, 813

WASSERMANN reagin, relation of antibodies to spirochetes in syphilitic serum, 215

YELLOW fever virus, ultracentrifugation, 703